AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method for delivering of a plurality of RDMA messages, the method comprising the steps of:

placing each out-of-order RDMA message to a buffer;

storing information regarding each out-of-order RDMA message on a per TCP hole basis;

and

delivering the plurality of RDMA messages in-order.

2. (Original) The method of claim 1, wherein, for an RDMA Read Request message, the storing step includes:

storing a number of pending RDMA Read Response messages waiting for a doorbell ring in a connection context on a per TCP hole basis; and

ringing the doorbell of a network interface controller (NIC) that each of the number of pending RDMA read response messages have been posted to a respective work queue element (WQE) of a read queue upon closing of a respective TCP hole.

3. (Original) The method of claim 2, further comprising the step of processing each WQE.

- 4. (Original) The method of claim 1, wherein, for RDMA Send type messages, the delivery step includes, for each RDMA Send message of a TCP hole, placing RDMA Send message specific information to a work queue element (WQE) associated with the respective RDMA Send message.
- 5. (Original) The method of claim 4, further comprising the step of placing the CQE to a completion queue (CQ) upon closing of the TCP hole.
- 6. (Original) The method of claim 4, wherein a number of CQEs is equal to a number of RDMA Send messages of the TCP hole.
- 7. (Original) The method of claim 4, wherein RDMA Send message specific information is retrieved from a respective WQE upon a Poll-for-Completion request by an RDMA verb interface.
- 8. (Original) The method of claim 1, wherein, for RDMA Read Response type messages, the method further comprises the steps of:

storing a number of completed RDMA Read Response messages on a per TCP hole basis; and

reporting completion of RDMA Read work requests upon closing of the TCP hole.

9. (Currently Amended) A system for delivering of a plurality of RDMA messages, the method system comprising the steps of:

a processor; and

a memory, further comprising:

means for placing each out-of-order RDMA message to a buffer;

means for storing information regarding each out-of-order RDMA message on a

per TCP hole basis; and

means for delivering the plurality of RDMA messages in-order.

10. (Original) The system of claim 9, wherein, for an RDMA Read message, the storing means includes:

means for storing a number of pending RDMA Read Response messages waiting for a doorbell ring on a per TCP hole basis; and

means for ringing the doorbell of the delivery means that each of the number of pending RDMA Read Response messages have been posted to a respective work queue element (WQE) of a read queue upon closing of a respective TCP hole.

11. (Original) The system of claim 9, wherein, for RDMA Send type messages, the delivery means includes, for each RDMA Send message of a TCP hole, placing RDMA Send message specific information to a work queue element (WQE) associated with the respective RDMA Send message.

- 12. (Original) The system of claim 11, further comprising means for placing the CQE to a completion queue (CQ) upon closing of the TCP hole.
- 13. (Original) The system of claim 11, wherein a number of CQEs is equal to a number of RDMA Send messages of the TCP hole.
- 14. (Original) The system of claim 11, wherein the RDMA Send message specific information is retrieved from a respective WQE upon a Poll-for-Completion request by an RDMA verb interface.
- 15. (Original) The system of claim 9, further comprising:means for storing a number of completed RDMA Read Response messages on a per TCP

means for reporting completion of RDMA Read work requests upon closing of the TCP hole.

hole basis; and

16. (Currently Amended) A computer program product comprising a <u>tangible</u> computer useable medium having computer readable program code embodied therein for delivering of a plurality of RDMA messages, the program product comprising:

program code configured to place each out-of-order RDMA message to a buffer;

program code configured to store information regarding each out-of-order RDMA message on a per TCP hole basis; and

program code configured to deliver the plurality of RDMA messages in-order.

17. (Original) The program product of claim 16, wherein, for an RDMA Read message, the storing program code includes:

program code configured to store a number of pending RDMA Read Response messages waiting for a doorbell ring in a connection context on a per TCP hole basis; and

program code configured to ring the doorbell of a network interface controller (NIC) that each of the number of pending RDMA Read Response messages have been posted to a respective work queue element (WQE) of a read queue upon closing of a respective TCP hole.

- 18. (Original) The program product of claim 16, wherein, for RDMA Send type messages, the delivery program code includes program code configured to placing RDMA Send message specific information to a work queue element (WQE) associated with each RDMA Send message of a TCP hole.
- 19. (Original) The program product of claim 18, further comprising program code configured to place the CQE to a completion queue (CQ) upon closing of the TCP hole.
- 20. (Original) The program product of claim 18, wherein a number of CQEs is equal to a number of RDMA Send messages of the TCP hole.
- 21. (Original) The program product of claim 18, wherein the RDMA Send message specific

information is retrieved from a respective WQE upon a Poll-for-Completion request by an RDMA verb interface.

22. (Original) The program product of claim 16, further comprising:

program code configured to store a number of completed RDMA Read Response messages on a per TCP hole basis; and

program code configured to report completion of RDMA Read work requests upon closing of the TCP hole.